

## Belkin extender portfolio.

Secure. Certified. Connected.



### Belkin video/USB extenders.

**Introducing never-before-available security and distance options.**

Existing technology allows extenders to deliver point-to-point video and USB across distance, but there's no way to switch the video path from enclave to enclave.

Belkin SKVM keyboards and remote-control pads deliver groundbreaking technology by enabling enclave switching control over long distance from the users' desktops. This valuable security feature allows the processing side (zero clients, thin clients, workstations) and the Secure KVMs to be located in a locked, secure data center or SCIF (Sensitive Compartmented Information Facility) rather than at the desktop. Users have the flexibility to switch across a multitude of classified/unclassified networks remotely even though there are no processing components at the desktop.

The innovation to toggle SKVM buttons on the SKVM keyboard or remote-control pad at a remote location is an industry breakthrough. Combining it with a minimum of infrastructure cost (one receiver/transceiver set per monitor) is revolutionary. Leveraging its SKVM expertise, Belkin developed a "no client" solution that provides the ultimate in desktop security with the added benefit of data center-located administration of the computing assets.

### Belkin secure desktop approach.

**Better than a zero or thin client – it's a no client.**

Our technology makes two unique applications possible:

- Placement of Secure KVMs next to computers in the data center instead of at the desktop with single-wire control over long distances from the remote desktop.
- Long-distance transmission of video/USB over copper or fiber infrastructure for audio/visual projects challenged by signaling limitations.

Benefits for government, utilities and healthcare professionals include:

- Improved security and centralized administration of the computing assets and SKVMs by rack-mounting the processing side (virtual or physical workstations) in the data center.
- Dramatic infrastructure cost reductions. Instead of running four or more Ethernet drops (one per enclave) to each desk, only one CAT6 or fiber run is needed per desktop (two for dual-head support). This significantly reduces cable bulk costs and simplifies cable management.
- Belkin's Extender portfolio allows you to control your computer, secure enclave or SKVM switch from up to 328 feet (100m) with CAT6 or 984 feet (300m) with SFP Fiber. This is ideal for remote desktops, conference rooms, command and control, server farms and secure video access.

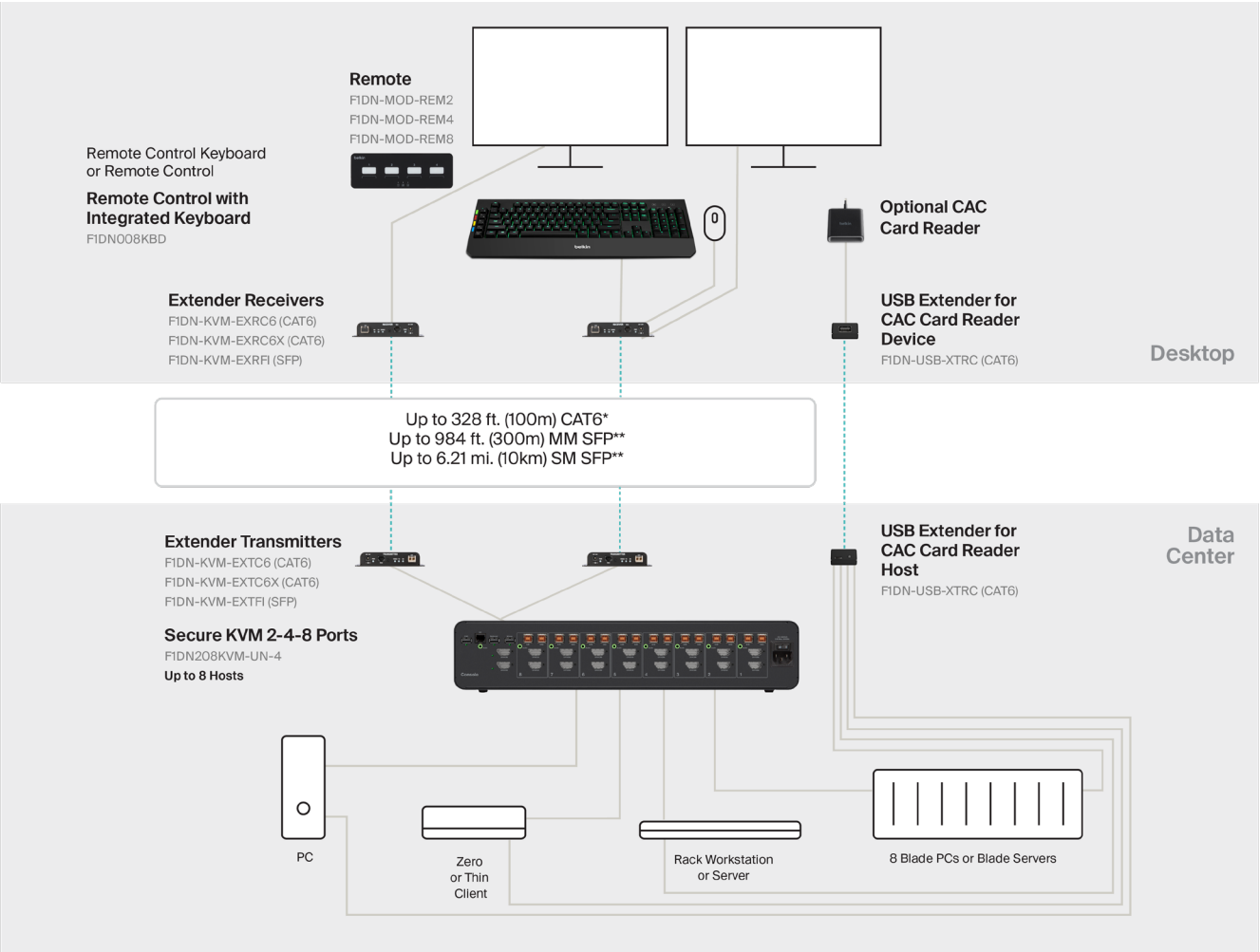
# Belkin KVM Extenders

Part Number	Description
F1DN-KVM-EXTC6	Extender Transmitter Copper CAT6 - Universal Video (4K 60Hz 4:2:0)
F1DN-KVM-EXRC6	Extender Receiver Copper CAT6 - Universal Video (4K 60Hz 4:2:0)
F1DN-KVM-EXTC6X	Extender Transmitter Copper CAT6 - Universal Video (4K 60Hz 4:4:4)
F1DN-KVM-EXRC6X	Extender Receiver Copper CAT6 - Universal Video (4K 60Hz 4:4:4)
F1DN-KVM-EXTFI	Extender Transmitter Fiber SFP - Universal Video (4K 60Hz 4:2:0)
F1DN-KVM-EXRFI	Extender Receiver Fiber SFP - Universal Video (4K 60Hz 4:2:0)
F1DN-USB-XTRC	Extender Copper CAT6 USB Transmitter and Receiver

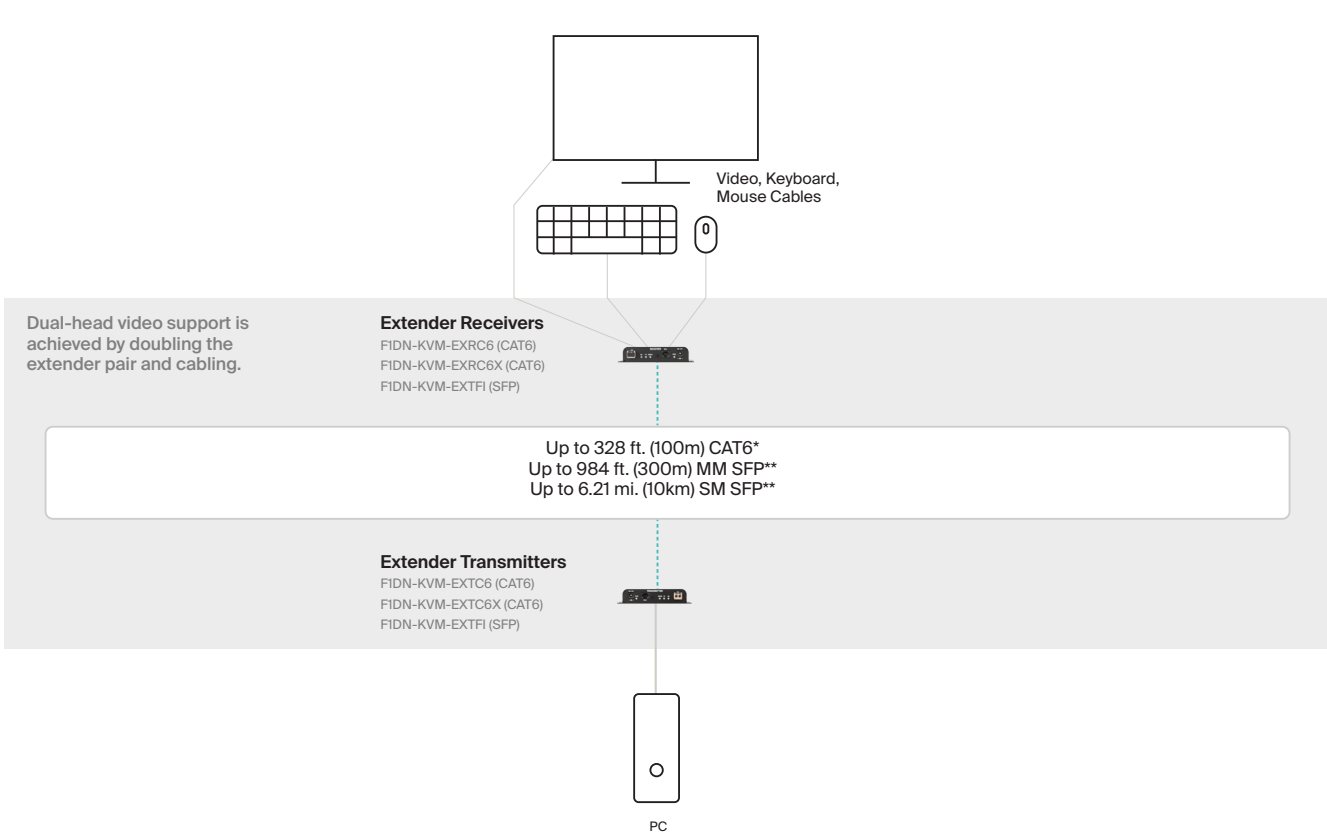
## Product Views



Use Case – Security



Use Case – Distance



## Specifications






No. of Sources	1	1	1
Extension Type	Copper	Copper	Fiber
Link Port	RJ45	RJ45	SFP
Extension Length	Up to 328 ft. (100m) CAT6* Up to 984 ft. (300m) MM SFP** Up to 6.21 mi. (10km) SM SFP**		
Power Requirements	CAT6 Transmitter powered by 48V PSU; CAT6 Receiver powered by 12V PSU or PoE		Fiber Transmitter/Receiver powered by 12V PSU
AC Input	100 to 240 AC		
Power Type	External		
Made In	USA - TAA Compliant		
Product Life Cycle	10 years		
Warranty	3 years		
Dimensions	5.8 (W) x 4.2 (D) x 1.1 (H) in. / 145 (W) x 105 (D) x 28 (H) mm		
Weight	1.4 lbs. (0.64kg.)		
Operating Temperature	32° to 104° F (0° to 40° C)		
Storage Temperature	-4° to 140° F (-20° to 60° C)		
Humidity	0-80% RH, non-condensing		
Power Supply	Belkin Rack PSU 10 X 48VDC, with Rack-Mount Kit & 10 x Power Cables, for Extender Transmitter & Receiver Copper CAT6, PN F1DN-PSU-10P48V		Belkin Rack PSU 10 X 12VDC, with Rack-Mount Kit & 10 x Power Cables, for Extender Transmitter & Receiver Fiber SFP, PN F1DN-PSU-10P12V
Rack Mount	Belkin Extender Rack Kit for 10 units with Mounting Plates & Screws, PN F1DN-RK10-4U		
Product Certification	CE, RCM, FCC class B, VCCI, TUV US, TUV Canada		
Max Output Resolution	Supporting UHD 4K resolutions up to 3840x2160 @ 60Hz 4:2:0 Up to 100m*	Supporting UHD 4K resolutions up to 3840x2160 @ 60Hz 4:4:4 Up to 100m*	Supporting UHD 4K resolutions up to 3840x2160 @ 60Hz 4:2:0 Up to 100m **
<b>Receiver Part Number</b>		<b>F1DN-KVM-EXRC6</b>	<b>F1DN-KVM-EXRC6X</b>
Console Ports	Display	1x DP/HDMI 2.0 via combo connector	
	Mouse And Keyboard	2 x USB Type-A 2.0	
	Audio Out	3.5mm	
	IR Remote	Mini PL (IN)	
	RCU	RJ14 (OUT)	
<b>Transmitter Part Number</b>		<b>F1DN-KVM-EXTC6</b>	<b>F1DN-KVM-EXTC6X</b>
Computer Ports	Display	1 x DP/HDMI 2.0 via combo connector	
	Mouse and Keyboard	USB Type-B 2.0	
	Audio Out	3.5mm jack	
	IR Remote	Mini PL (OUT)	
	RCU	RJ14 (IN)	
	Supported OS	Windows, Linux, Mac	

\*Depends on the type and quality of CATx cable.

\*\*Depends on the Gigabit Interface Converter (GBIC) type.

Note: The extenders serve as a point-to-point control and cannot be controlled or routed.

## Accessories

Part Number	Image	Part Number	Image
F1DN008KBD		F1DN-RK10-4U	
F1DN-MOD-REM2, F1DN-MOD-REM4, F1DN-MOD-REM8		F1DN005U, F1DN008U	
F1DN-PSU-10P12V, F1DN-PSU-10P48V			

Learn more about Belkin’s cybersecurity solutions.



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